

Carbon Steel, Cold-Rolled, Drawing Quality, Special Killed, ASTM A1008 DS Type B (Formerly A620) Sheet

1. SCOPE

1.1 This Material Specification includes cold-rolled carbon steel sheet of drawing quality, special killed in coils or cut lengths.

1.2 This material is intended for fabricating parts requiring severe drawing or forming, or where essential freedom for aging, is required.

2. DRAWING SPECIFICATION

2.1 CR Sheet ASTM A1008 DS type B

2.2 Replaces the following call-outs:

CR Sheet ASTM A620
CR Sheet ASTM A620 No. 5 Temper

3. RELATED SPECIFICATIONS

3.1 REFERENCE STANDARDS

86050115 (FNHA-2-A-026.00)—General Requirements, Sheet and Strip
86572110 (FNHA-2-A-055.01)—Materials List 86050093
ASTM A1008—Standard Specification for Steel Sheet, Cold-rolled, Carbon, Structural, and High-strength Low-alloy
ASTM A620/A620M—Steel Sheet, Carbon, Cold-Rolled, Drawing Quality, Special Killed
ASTM A568/A568M—General Requirements for Steel, Carbon and High Strength Low-Alloy Sheet and Cold-Rolled Sheet

3.2 This standard replaces the following company standard:

Versatile

MS - 602

4. CHEMICAL REQUIREMENTS

4.1 The cast or heat analysis of the steel shall conform to the requirements listed in Table 1.

Table 1: Chemical Requirements

Element	Composition, %
Carbon, max.	0.10
Manganese, max.	0.50
Phosphorus, max.	0.025
Sulfur, max.	0.035

4.2 If aluminum is used as the deoxidizing agent, the aluminum content total by product analysis is usually in excess of 0.10%.

5. PHYSICAL REQUIREMENTS

5.1 Special killed steel shall be essentially nonaging. It shall be free of stretcher or flute strains, and shall not suffer loss of ductility with elapsed time. ALL MATERIAL SUPPLIED TO THIS SPECIFICATION SHALL BE SUITABLY TEMPER ROLLED AFTER ANNEALING TO PREVENT AGING.

5.2 Material supplied to this specification shall have a matte (dull) finish, shall be oiled, and have cut edges.

5.3 DQSK sheet shall be produced for special killed steel. It is normally produced from aluminum killed steel but may be otherwise deoxidized provided the material is capable of meeting the specified requirements.

					NAME	STD A1008 DS TYPE B		
ALL	G	TH	119270	08-02		 NEW HOLLAND	ENGINEERING SPECIFICATION	
ALL	F	TH	112318	7-98	FRAME 1		OF 2	
ALL	E	RLF	110229	JUL 97				PART NUMBER
ALL	D	TH	109752	970410	THE INFORMATION HEREON IS THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF NEW HOLLAND N. V. AND/OR ITS SUBSIDIARIES. ANY USE, EXCEPT THAT FOR WHICH IT MAY BE LOANED, IS PROHIBITED.			
ALL	C	RLF	107038	951018				
ALL	B	RE	104739	931015				
FRAME NO.	REV	BY	ECN NO.	DATE				
APP.	DRAWN		DE	AUG 93	26050093			
KHH OCT 93	CHECKED							

6. MECHANICAL REQUIREMENTS

DQSK sheet shall produce identified parts within a properly established breakage allowance, see standard 86050115 (FNHA-2-A-026.00), General Requirements for Steel, Sheet & Strip.

7. DIMENSIONS AND TOLERANCES

Tolerances for thickness, width and length dimensions are given in standard 86050115 (FNHA-2-A-026.00), General Requirements for Steel, Sheet & Strip.

8. DESIGN APPLICATIONS

8.1 DQSK should be used for parts that undergo severe drawing or forming, for example, sheet metal formed parts with tight 90 degree bends, sheave halves, cups, etc.

8.2 When the age hardening allowance is minimal for certain forming operations, DQSK should be considered.

9. AVAILABLE SHAPES

DQSK is available in sheet and coil.

10. QUALITY ASSURANCE

10.1 Material supplied to this specification shall also meet the appropriate sections in standard 86050115 (FNHA-2-A-026.00), General Requirements for Steel, Sheet & Strip.

10.2 The Quality Assurance Department shall monitor parts made to this specification to ensure that the supplied material conforms to the properly established breakage allowance as indicated in Section 5.1.

 NEW HOLLAND	NAME				PART NUMBER	
	STD A1008 DS TYPE B				86050093	
ENGINEERING SPECIFICATION		REV. G	FRAME 2	OF 2	 86050093	